IN THE CLAIMS

The claims are amended as follows:

1. (currently amended) A cooking range comprising:

a support structure;

a burner assembly on said support structure, said burner assembly including a gas-heat subassembly and a radiant heat subassembly, said radiant heat subassembly including two electrical terminals for electrically energizing a radiant heat source; and

an electromechanical interface configured to detachably interconnect said subassemblies to one another and relative to said support structure, said electromechanical interface further configured to pass electrical power to the radiant heat subassembly, wherein said electromechanical interface comprises at least two electrically-insulating bushings embedded in the gas-heat subassembly for receiving the two electrical terminals.

2. (currently amended) The cooking range of claim 1 wherein said radiant heat subassembly comprises a housing for accommodating ~~a~~ the radiant heat source disposed in a substrate~~, and two electric terminals for electrically energizing the radiant heat source therein.~~

3. (original) The cooking range of claim 2 wherein said radiant heat subassembly further comprises a radiant heat transmissive cover detachably mounted on said housing.

4. (original) The cooking range of claim 1 wherein said gas-heat subassembly comprises a gas burner head including a chamber for mixing fuel gas and air.

5. (cancelled)

6. (currently amended) The cooking range of claim ~~2~~ 1 wherein each of said two electrical terminals provides a respective ~~slip-fit~~ pluggable interface between the gas-heat subassembly and the radiant heat subassembly.

7. (currently amended) A burner assembly for a cooking range, the burner assembly comprising:

a gas-heat subassembly;

a radiant heat subassembly including two electrical terminals for electrically energizing a radiant heat source therein; and

an electromechanical interface configured to detachably interconnect said subassemblies to one another, said electromechanical interface further configured to pass electrical power to the radiant heat subassembly, wherein said electromechanical interface comprises at least two electrically-insulating bushings embedded in the gas-heat subassembly for receiving the two electrical terminals.

8. (currently ameded) The burner assembly of claim 7 wherein said radiant heat subassembly comprises a housing for accommodating ~~a~~ the radiant heat source disposed in a ceramic substrate~~, and two electric terminals for electrically energizing the radiant heat source therein~~.

9. (original) The burner assembly of claim 8 said radiant heat subassembly further comprises a radiant heat transmissive cover detachably mounted on said housing.

10. (original) The burner assembly of claim 7 wherein said gas-heat subassembly comprises a gas burner head including a chamber for mixing fuel gas and air.

11. (cancelled)

12. (currently amended) The burner assembly of claim ~~8~~ 7 wherein each of said two electrical terminals provides a respective slip-fit interface between the gas-heat subassembly and the radiant heat subassembly.

13. (currently amended) A method for interfacing a burner assembly in a cooking range, the method comprising:

providing a gas-heat subassembly;

providing a radiant heat subassembly; ~~and~~

detachably interconnecting said subassemblies to one another through an electromechanical interface; and

passing electrical power through said electromechanical interface to the radiant heat subassembly, wherein said detachably interconnecting comprises providing a respective slip-fit interface between the gas-heat subassembly and the radiant heat subassembly.

14. (cancelled)

15. (new) A cooking range comprising:

a support structure;

a burner assembly on said support structure, said burner assembly including a gas-heat subassembly and a radiant heat subassembly, said radiant heat subassembly including two electric terminals for electrically energizing a radiant heat source; and

an electromechanical interface configured to detachably interconnect said subassemblies to one another and relative to said support structure, said electromechanical interface further configured to pass electrical power to the radiant heat subassembly, wherein said two electric terminals provide a pluggable interface between said gas-heat subassembly and said radiant heat subassembly.

16. (new) The cooking range of claim 15, wherein said electromechanical interface comprises a plug.

17. (new) The cooking range of claim 16, wherein said plug comprises a flexible spring-metal tip that is configured to provide a slip fit in a bore.

18. (new) The cooking range of claim 16, wherein said plug comprises an electrically conductive tube that is configured to provide an electrical connection between said electrically conductive tube and said radiant heat source.

19. (new) A burner assembly for a cooking range, the burner assembly comprising:

a gas-heat subassembly;

a radiant heat subassembly, said radiant heat subassembly including two electric terminals for electrically energizing a radiant heat source; and

an electromechanical interface configured to detachably interconnect said subassemblies to one another, said electromechanical interface further configured to pass electrical power to the radiant heat subassembly, wherein said two electric terminals provide a slip-fit interface between said gas-heat subassembly and said radiant heat subassembly.

20. (new) The cooking range of claim 19, wherein said electromechanical interface comprises a plug.

21. (new) The cooking range of claim 20, wherein said plug comprises a flexible spring-metal tip that is configured to provide a slip fit in a bore.

22. (new) The cooking range of claim 20, wherein said plug comprises an electrically conductive tube that is configured to provide an electrical connection between said electrically conductive tube and said radiant heat source.

23. (new) A method for interfacing a burner assembly in a cooking range, the method comprising:

providing a gas-heat subassembly;

providing a radiant heat subassembly, said radiant assembly including two electric terminals for electrically energizing a radiant heat source;

detachably interconnecting said subassemblies to one another through an electromechanical interface; and

passing electrical power through said electromechanical interface to said radiant heat subassembly, wherein each of said two electric terminals provides a respective pluggable interface between said gas-heat subassembly and said radiant heat subassembly.

24. (new) A burner assembly for a cooking range, the burner assembly comprising:

a gas-heat subassembly including a plug;

a radiant subassembly including two electric terminals for electrically energizing a radiant heat source; and

an electromechanical interfcae configured to pluggably interconnect said plug to said electric terminals, said electromechanical interface further configured to pass electrical power to said radiant heat subassembly.